

Division of Solid and Hazardous Waste  
PO Box 414  
Trenton, New Jersey 08625-0414  
Tel. # (609) 984-6900  
Fax. # (609) 633-9839

## **SOLID WASTE FACILITY PERMIT**

Under the provisions of N.J.S.A. 13:1E-1 et seq. known as the Solid Waste Management Act, this Solid Waste Facility Permit (Permit) is hereby issued to:

### **Burlington County Board of Chosen Freeholders**

FACILITY TYPE	<u>Class I Sanitary Landfill (including Landfill No. 1 and Landfill No. 2)</u>
FACILITY NUMBER:	<u>0318000167</u>
MUNICIPALITY:	<u>Florence Township</u>
LOT NO.(S): BLOCK NO.	<u>16.01, 16.02, 17.01, 17.02, 17.03</u> <u>172.05</u>
LOT NO.(S): BLOCK NO.	<u>1, 3.01, 4, 5, 6, 8.01, 10</u> <u>173</u>
LOT NO.(S): BLOCK NO.	<u>2, 3.01, 3.02, 3.03, 3.04, 3.05, 3.06</u> <u>4.01, 4.02, 7</u> <u>174</u>
MUNICIPALITY:	<u>Mansfield Township</u>
LOT NO.(S): BLOCK NO.	<u>1, 2, 3, 4, 5.01, 5.02, 5.03, 5.04, 5.05</u> <u>5.06, 5.07, 6</u> <u>44</u>
EXPIRATION DATE:	<u>March 30, 2003</u>

This Permit is subject to compliance with all conditions specified herein and all regulations promulgated by the Department of Environmental Protection as same may be amended in the future.

Any references herein to specific regulations include any future amendments thereto.

This Permit shall not prejudice any claim the state may have to riparian land, nor does it allow the Permittee to fill or alter or allow to be filled or altered in any way, lands that are deemed to be riparian, wetlands, stream encroachment areas or flood plains, or that are within the Coastal Area Facility Review Act (CAFRA) zone or are subject to the Pinelands Protection Act of 1979, nor shall it allow the discharge of pollutants to waters of this state without prior acquisition of the necessary grants, permits or approvals from the Department of Environmental Protection.

Compliance with the terms of this Permit does not relieve the Applicant of the obligation to comply with all applicable state and federal statutes, rules and other permits.

Failure to comply with all of the conditions specified herein may result in revocation of this Permit and/or other regulatory or legal actions which the Department is authorized to institute by law.

This Permit is non-transferable without approval from the Department pursuant to N.J.A.C. 7:26-2.7(e).

December 14, 1987  
Original Date of Issuance  
(Landfill No. One)

Signed by Thomas Sherman, Assistant Director  
Thomas Sherman  
Assistant Director  
Office of Permitting and  
Technical Programs

March 31, 1998  
Expansion Permit Issuance Date  
(Landfill No. 1 and Landfill No.2)

May 17, 1999  
Permit Modification Date

Solid Waste Facility Permit for the Burlington County Board of Chosen Freeholders, Florence and Mansfield Townships, Burlington County, Facility Number 0318000167.

This Permit is contingent upon compliance with and implementation of the following:

**A. GENERAL CONDITIONS**

**1. Permitted Waste Types**

The following solid waste materials, as identified by waste identification (ID) numbers and defined in N.J.A.C 7:26-2.13(g), may be accepted for disposal at the landfill:

<u>I.D.</u>	<u>Waste</u>
10	Municipal (Household, Commercial and Institutional)
13	Bulky Waste
13C	Construction and Demolition Waste
23	Vegetative Waste except leaves pursuant to N.J.S.A. 13:1E-99.21
25	Animal and Food Processing Waste
27	Dry Industrial Waste
27I	Waste material consisting of incinerator ash or ash containing waste

2. Prohibited Waste Types

The following waste materials, liquid or solid, as identified by waste identification (ID) numbers and defined in N.J.A.C. 7:26-2.13(g) and (h), may not be accepted for disposal at the landfill:

<u>I.D.</u>	<u>Waste</u>
12	Dry Sewage Sludge
27A	Waste material consisting of asbestos or asbestos containing waste
72	Bulk Liquid and Semi-Liquids
73	Septic Tank Clean-Out Wastes
74	Liquid Sewage Sludge

Leaves pursuant to N.J.S.A. 13:1E-99.21.

Regulated Medical Waste, Class 1 through 7, as per N.J.A.C. 7:26-3A.5.

Hazardous Waste as defined or otherwise classified in N.J.A.C. 7:26G-5.

Recyclable materials as designated in the Burlington County District Recycling Plan.

3. Recyclables

Recyclable materials designated in the Burlington County District Recycling Plan to be source separated pursuant to N.J.S.A. 13:1E-99.11 and 99.13b(2) shall not be accepted for disposal at the landfill.

Any recyclable materials described above that are detected in a load of waste accepted at the facility shall be handled pursuant to the Operations and Maintenance Manual.

4. Haulage Vehicles

Only vehicles properly registered, pursuant to N.J.A.C. 7:26-3, with the Department, unless exempt from the registration requirements pursuant to N.J.A.C. 7:26-3.3, and displaying the appropriate registration number and solid waste decal shall be admitted for the unloading of any solid waste at the facility. The facility shall be operated in accordance with N.J.A.C. 7:26-2.11.

5. Waste Delivery Haul Routes & Traffic Control

The Permittee shall ensure that all solid waste collection/haulage vehicles that access and egress the facility adhere to the mandatory truck routes specified in the Burlington County Solid Waste Management Plan and described in the Operation and Maintenance Manual for the landfill. The Permittee shall post at the facility and provide photocopies detailing primary truck routes to the users of the facility.

A majority of truck traffic entering the Resource Recovery Complex shall utilize I-295, travel east on Florence-Columbus Road (County Route 656), turn right at the traffic signal, and travel west on Burlington-Columbus Road (County Route 543) to the entrance of the County facility. Vehicles hauling materials generated within the Townships of Florence, Mansfield and Springfield are exempted from the mandatory traffic routes. Facility related vehicles shall not be backed, parked or queued on public streets or roads.

Waste deliveries to the facility shall be scheduled in a manner as to minimize truck queuing on the facility property. Under no circumstances shall delivery trucks be allowed to back up onto public roads.

6. On-site Traffic Control

On-site traffic control measures shall be implemented to provide for orderly vehicle movement on the facility grounds. These measures shall include the appropriate use of lane delineations, signals and signs. All delivery trucks shall queue, as necessary, in areas designated for that purpose. All on-site roadways utilized for vehicle traffic, excepting the temporary roads on the active areas of the landfill, shall be constructed and maintained to withstand heavy traffic usage.

7. Unauthorized Waste

As detailed in the Operations and Maintenance Manual, a program shall be maintained for detecting and preventing the disposal of regulated hazardous waste and other unauthorized wastes. The program shall include the random inspections of incoming loads, recording any inspections, and training of any facility personnel to recognize regulated hazardous waste. The program shall include the following:

- a. Any truck suspected of hauling hazardous waste shall be stopped and inspected. Any vehicle found to be carrying a hazardous waste material as defined at N.J.A.C. 7:26G-5 shall not be permitted to unload at the facility.
- b. Continuous visual monitoring of the discharged waste shall be conducted by facility personnel. Any suspected unacceptable waste shall be removed from the processing stream.

- c. Any suspected hazardous waste, regulated medical waste, or liquids found in a load accepted at the facility shall not be returned to the generator. Such material shall be segregated and stored in a secure manner and the discovery of any such wastes at the facility shall immediately be brought to the attention of the NJDEP using the NJDEP Environmental Action Hotline at (609) 292-7172. The Bureau of Hazardous Waste Compliance and Enforcement shall also be contacted at (609) 584-4250. In addition, the Burlington County Health Department shall be contacted regarding the receipt of any suspected hazardous materials. The Permittee shall secure the name of the collector/hauler suspected of delivering such waste to the facility and related information surrounding the incident, if available, and shall make this information known to the Department's enforcement personnel.

8. Bulky Materials Recycling Center

The storage and processing of bulky wastes and recyclables shall be conducted in accordance with Section 7 of the Operations and Maintenance Manual, entitled "Bulky Materials Recycling Center", and Appendix A of this permit.

9. Household Hazardous Waste Facility

The operation of the on-site household hazardous waste facility shall be conducted in accordance with the Operations and Maintenance Manual entitled "Household and Small Quantity Generator Hazardous Waste Facility Operations and Maintenance Manual", dated November 5, 1993.

10. Hours of Operation

The Complex is open for the disposal of solid waste and the acceptance of bulky wastes and recyclables from 7:00 A.M. to 5:00 P.M., Monday through Friday, and from 7:00 A.M. to 2:00 P.M. on Saturday. The Household Hazardous Waste Facility may operate until 8:00 P.M. on weekdays and 5:00 P.M. on Saturdays. The Complex shall be closed Sundays and the following holidays, as defined in the facility's Operations and Maintenance Manual: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.

The Department shall be notified of any changes in the operating hours of the facility. The entrance gate shall be posted with the aforementioned operating hours of the facility. The Department reserves the right to revise the above schedule should the operation of this facility, under any circumstances, result in violations of the noise level standards established in Condition A.12 (Noise Control) of this Permit.

11. Vector Control

The sanitary landfill shall be operated in a manner which minimizes the propagation and harborage of insects, rodents and birds. Cover material shall be applied as needed to control vectors. An effective vector control program shall be instituted and maintained throughout the site.

If vectors still present a problem, the Permittee shall implement a program in compliance with

the requirements of the New Jersey Pesticide Control Code, N.J.A.C. 7:30, by an applicator of pesticides certified in accordance with N.J.A.C. 7:30.

12. Noise Control

Noise control shall be implemented to ensure that sound levels generated by the facility operation, including vehicles, do not exceed the standards set forth by the New Jersey Noise Control Regulations at N.J.A.C. 7:29-1.2.

The Permittee shall prevent the continued entry to the facility of any vehicle not equipped with proper operating muffler systems or those vehicles which create excessive noise.

The Department reserves the right to require the Permittee to perform additional noise surveys to ensure continued compliance with N.J.A.C. 7:29.

13. Odor Control

The operation of the facility shall not cause any air contaminant, including an air contaminant detectable by the sense of smell, to be present in the outdoor atmosphere in such quantity and duration which is, or tends to be, injurious to human health or welfare, animal or plant life or property, except for malodorous emissions emanating from the landfill which result in odors in areas over which the owner and/or operator has exclusive use or occupancy.

Malodorous emissions shall be controlled by the use of daily cover at the landfill. In the event that this is not satisfactory, a suitable deodorant shall be used. Malodorous solid waste shall be covered immediately after unloading with a minimum of six inches of cover material or approved alternative material.

14. Fire Safety

An adequate water supply and/or fire fighting equipment shall be readily available on-site or on call to extinguish any and all fires. In case of a fire, the Permittee shall immediately notify the local police and fire department having jurisdiction and the NJDEP action line at (609) 292-7172. The Permittee shall be responsible for initiating and continuing fire-fighting actions until all smoldering, smoking and burning ceases. The Permittee shall seek and obtain fire-fighting assistance if smoldering, smoking or burning persists for longer than 24 hours. The Permittee shall ensure that local fire companies are thoroughly versed in the emergency plan of action for a fire at the facility. Specific procedures are outlined in the approved Operations and Maintenance Manual for the facility.

Fire-fighting procedures and emergency procedures shall be posted prominently in the work area and shall include the telephone numbers of local fire, police, ambulance and hospital facilities.

15. Security

The existing perimeter chain link fence shall be maintained at the Burlington County Resource Complex to control access to the landfill.

Access to the site shall be restricted to facility personnel, authorized vehicles and authorized visitors only. Security procedures shall be implemented that provide for an effective means of controlling entry and exit at all times. Guards, attendants, visual monitors, or locked gates shall be utilized at all site entrance and exit roadways.

The Permittee shall allow reasonable access to the Florence Land Recontouring Landfill for purposes of remedial action, monitoring, and maintenance of the site.

16. Safety Procedures

A copy of the operating safety procedures shall be posted prominently in the work area. The Permittee shall follow the Occupational Safety and Health Administration (OSHA) standards in the construction and operation of this facility for the safety of contractors, employees and other persons entering the premises. Appropriate facility staff shall be trained to effectively respond to any equipment malfunction or emergency situation that may arise during facility operation.

In addition, the Permittee shall require in all contracts with private contractors performing work on behalf of the Permittee in construction and operation at the facility that the contractors adhere to all OSHA standards for the safety of its employees and other persons entering the premises.

17. Housekeeping

Routine housekeeping and maintenance procedures shall be implemented within the facility interior to prevent the accumulation of dust and debris on the public roads and to maintain general cleanliness in the working environment.

Litter at the landfill shall be controlled through the use of moveable fences of sufficient height or by an equivalent means. The litter fence shall be policed daily, and the litter collected shall be properly disposed of at the working face of the landfill. Litter shall be removed and properly disposed of on a daily basis along Route 543 and Route 656 from the facility entrance to Exit 52 of I-295.

Dust control at the landfill shall be affected by the spraying of water or the spreading of calcium chloride or an equivalent method approved by the Division as needed. Spraying of waste oil is prohibited.

Mud, soil, or other materials shall not be tracked onto any public roads by exiting vehicles. Effective measures shall be implemented to comply with this condition. If these measures prove ineffective in controlling soil tracking, the Permittee shall remove all soil or other materials from the tires of exiting vehicles by means of a high pressure steam (or water) cleaning apparatus combined with a rumble rack.

18. Facility Operator

Any private individual, entity or corporation selected by the Permittee to operate part or all of the facility activities shall be fully registered with the Department to conduct solid waste business in the State of New Jersey pursuant to the provisions set forth at N.J.A.C. 7:26-16.

19. Facility Personnel Training

All personnel who are directly involved in facility management activities or who operate, service or monitor any facility equipment, machinery or system shall successfully complete an initial program of classroom instruction or on-the-job training which includes instruction in the operations and maintenance of the equipment, machinery and systems which teaches them to perform their duties in a manner that ensures the facility's compliance with the requirements of N.J.A.C. 7:26 and the conditions of all Departmental permits issued to the facility.

The training program shall ensure that appropriate facility personnel are able to effectively respond to any equipment malfunction or emergency situation which may arise. The training program shall provide instruction in the use of safety equipment, procedures for inspecting and repairing facility equipment, machinery and monitoring systems and the procedures to be followed during planned or unplanned shutdown of operations.

The training program shall require constant monitoring of incoming loads and shall include instruction related to identification and proper handling of suspected unauthorized waste types. Instruction in fire training and noise monitoring shall be provided to appropriate personnel.

20. Facility Staffing

The facility shall maintain sufficient staff to ensure proper, orderly and safe operation of all materials handling, processing, monitoring and control, safety, emergency, and security equipment items. Concurrently, the level of staffing shall provide the capability to handle all routine facility maintenance requirements and also to respond to all emergency situations.

A fully trained and qualified foreman or supervisor who is designated and authorized by the Permittee to direct and implement all operational decisions shall be present at the facility during all operating hours.

21. Emergency Actions

In the event of an emergency, all measures outlined in N.J.A.C. 7:26-2A.8(b)42 shall be followed. The Department shall be notified immediately at (609) 292-7172.

22. Plans On-Site

One complete set of the approved engineering plans, the engineering reports, the final Operations and Maintenance Manual, the operations record, the environmental and health impact statement and a copy of this Permit shall be kept at the facility and shall be made available for inspection by Department personnel or its designated representatives.

23. As-Built Certification

Upon completion of construction of each phase of the landfill, certification by a New Jersey licensed Professional Engineer with expertise in civil or geotechnical engineering shall be

provided as specified in N.J.A.C. 7:26-2A.7(a)20 through 24. The certification shall include a summary of daily quality control reports, all test results and two sets of as-built drawings.

No work performed under this Permit shall be considered complete until such engineer's certification has been submitted to and accepted by this Division. In the event that said certification is not received or is not accepted, the work shall be considered incomplete.

All certifications shall bear the raised seal of the licensed professional engineer, the engineer's signature, and the date of the certification. The certification shall include the following statement: "I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals under my supervision, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment. I understand that, in addition to criminal penalties, I may be liable for a civil administrative penalty pursuant to N.J.A.C. 7:26-5 and that submitting false information may be grounds for denial, revocation or termination of any solid waste facility permit for which I may be seeking approval or now hold."

24. Duration of Permit

This Permit shall be effective for a maximum period of five (5) years from the date of its issuance. This Permit may be renewed at that time upon proper application, in accordance with procedures outlined in N.J.A.C. 7:26-2.7(b).

25. Right of Entry

The Permittee, by acceptance of this permit, hereby authorizes entry by Department representatives to make whatever inspections, searches, or examinations are deemed necessary by those representatives to determine the extent of compliance with any conditions of this Permit.

26. Operations Record

The management of all waste received for disposal shall be consistent with the Burlington County District Solid Waste Management Plan pursuant to N.J.A.C. 7:26-6.12. Records of the facility's operations shall be maintained on a daily basis by the Permittee. Monthly summaries shall be submitted, before the 20th of each month following the month for which the information was recorded, to:

New Jersey Department of Environmental Protection  
Division of Solid and Hazardous Waste  
Bureau of Recycling and Planning  
PO Box 414  
Trenton, New Jersey 08625-0414

The information shall include, but not be limited to, the following:

- a. The weight of solid waste delivered to the facility for each waste type authorized by

this Permit;

- b. The number of collection vehicles delivering waste to the facility;
- c. The volume and tonnage of waste flow, reported by type, from each municipality;
- d. The volume and tonnage of waste removed for disposal and the facility receiving the waste (when applicable);
- e. The number of vehicles removing waste for disposal or recyclables for reuse or further processing from the facility; and
- f. The tonnages and types of source separated recyclable materials received pursuant to N.J.A.C. 7:26-2.11(b)15 and recyclable materials separated from the solid waste received.

Where applicable, the information required to be recorded in the daily record shall be supplied by the transporter to the facility operator on the waste origin/disposal (O&D) form (or duplicates of same). The O&D forms shall be kept by the Permittee for a minimum of one year and shall make them available for inspection by the representatives of the Department or the local health department any time during normal working hours. The daily record shall be maintained at the operating facility on forms provided by the Department or duplicates of same, or on systems acceptable to the Department and shall be kept for five years. The daily record shall be available for inspection by representatives of the Department, county lead agency certified by the Department pursuant to N.J.S.A. 26:3A-2 for any county from which solid waste is received, or the local health department at any time during normal working hours.

## **B. SANITARY LANDFILL**

### **I. DESIGN AND CONSTRUCTION**

Landfill No. 1 is constructed and operational. The following shall apply to Landfill No. 2 unless otherwise noted.

#### **1. Landfill Development Plan**

In accordance with the design, Landfill No. 2 shall consist of 26 sections ranging in size from 2 to 4.2 acres. These 26 sections will be constructed in four or five phases over a fourteen year period. The Landfill No. 2 cap will be constructed in three phases. The leachate recirculation and gas collection systems will be installed in 31 phases over a fifteen year period.

The waste fill limits (the area within the perimeter berm) of Landfill No. 2 are approximately 69.8 acres; of this acreage, 53.4 acres will be utilized for the disposal of unprocessed solid waste. The remaining 16.4 acres will be dedicated for the disposal of residue resulting from mining activities at Landfill No. 1 in the event that the Permittee determines that mining of that facility is feasible and has obtained all necessary approvals from the Department. If the mining of Landfill No. 1 is determined not to be feasible or is otherwise not approved by the

Department, the 16.4 acre landfill (known as the "Residual Landfill") will be used for the disposal of conventional solid waste. Should this be the case, the liner profile for the 16.4 acre landfill shall be exactly the same as the 53.4 acre landfill. In accordance with the engineering design, the two landfill areas shall be separated by an interim berm which will be set at the same height as the perimeter berm to allow the two landfill areas to be developed separately. Leachate recirculation, as defined in Condition B.4, will not be permitted in the Residual Landfill if mining activities occur. A five (5) foot thick clay berm shall be constructed around the perimeter of Landfill No. 2 which will be in compressive contact with a geomembrane liner. The berm shall have a maximum permeability of  $1 \times 10^{-7}$  cm/sec.

## 2. Landfill's Liner System Profile

Liner profiles for each section of Landfill No. 2 shall be as follows (slight deviations may be noted for the perimeter berm, as provided for in the engineering design):

### A. Solid Waste Landfill

The landfill's composite liner system profile, in ascending order, shall be as follows:

- N The clay component of the composite liner system shall consist of a minimum of (3) feet of in-situ or recompacted clay, having a maximum permeability of  $1 \times 10^{-7}$  cm/sec, excavated to the grades indicated on the engineering designs. Alternatively, a geosynthetic clay liner (GCL) having a thickness of approximately  $\frac{1}{4}$  inch and a maximum permeability of  $5 \times 10^{-9}$  cm/sec may be substituted for the upper eighteen inches of in-situ or recompacted clay.
- N A geomembrane liner consisting of high density polyethylene possessing a nominal thickness of 60 mils.
- N A geocomposite drainage layer consisting of a HDPE geonet bonded by a non-woven geotextile on top to prevent the intrusion of fines into the geonet.
- N An 18-inch drainage layer consisting of sand with a minimum hydraulic conductivity of  $1 \times 10^{-2}$  cm/sec following compaction. This drainage layer shall contain twelve-inch perforated PVC pipes to convey the leachate to the perimeter header and pumping system.

### B. Residual Landfill

- N The liner system for the Residual Landfill shall consist of a minimum of (3) feet of in-situ or recompacted clay, having a maximum permeability of  $1 \times 10^{-7}$  cm/sec, excavated to the grades indicated on the engineering designs.
- N An 18-inch drainage layer consisting of sand with a minimum hydraulic conductivity of  $1 \times 10^{-2}$  cm/sec following compaction. This drainage layer shall contain six-inch perforated PVC pipes to convey the leachate to the perimeter header and pumping system.

In the event that mining is determined to be infeasible, the area within the Residual Landfill

shall be constructed in the same manner as the Solid Waste Landfill to allow for the disposal of conventional solid waste.

The minimum slopes of the liner shall be 2% on controlling slopes and 0.5% on remaining slopes.

Recompacted clay shall be placed in lifts not exceeding nine (9) inches and be compacted within a range of moisture and density that will result in the required impermeability. Each lift of clay shall be tested in-place for moisture and density at fifty (50) foot intervals on a grid pattern. Permeability testing shall be performed on undisturbed core samples of the final graded liner. Such samples shall be taken at a minimum of 200-foot intervals on a grid pattern across the surface of the liner.

Whenever a sample fails to meet the required maximum permeability, the section of failure shall be localized, reconstructed, and retested. If the clay liner again fails to meet a maximum permeability of  $1 \times 10^{-7}$  cm/sec., the Division of Solid and Hazardous Waste shall be notified immediately and further construction shall not commence until authorized by the Division. All core sample holes shall be backfilled and recompacted by hand tamping at the proper moisture content to achieve the minimum liner hydraulic conductivity.

Moisture/density tests on the clay component of the liner system shall be plotted on the appropriate moisture/density curve with the "acceptable permeability zone (APZ)" displayed. Moisture/density tests falling outside of the APZ shall be considered failed tests and shall be reworked and retested until they pass. A table of the moisture/density results shall be presented in numerical order by lifts. Retest results shall provide an explanation of what was done to cause the failed tests to pass. Both the moisture density curve with plotted test results and the table of moisture/density data shall be included in any quality control report submitted to this Division.

The geomembrane liner shall be of high quality materials and shall meet the minimum requirements as outlined in the most recent version of the National Sanitation Foundation's publication "Standard Number 54 Flexible Membrane Liners". The geomembrane shall be compounded from first quality virgin materials. No regrinded or reprocessed materials containing encapsulated scrim shall be used in the manufacturing of the geomembrane. During field seaming, a destructive seam test sample shall be prepared for every 500 feet (or as otherwise approved by the Division for that particular construction event) of field seam. All samples shall be tested for peel and sheer strength. Seams shall be stronger than the liner.

All tests performed during the construction and installation of the landfill's baseliner system shall be in accordance with ASTM, AASHTO or equivalent methods and the approved QA/QC Plan. All test results shall be submitted to this Division along with a New Jersey Licensed Professional Engineer's certification in accordance with Condition A.24 (As-Built Certification) that the liner has been constructed in accordance with this Permit.

### 3. Leachate Collection System

A leachate collection system, as shown on Sheet Numbers LF-34, LF-35 and LF-36 of the design plans, shall consist of a high capacity 250 mil geonet bonded on top by a non-woven geotextile to prevent the intrusion of fines into the planar net. The geonet shall be overlain

by a drainage layer consisting of 18 inches of concrete sand having a permeability greater than  $1 \times 10^{-2}$  cm/sec. Leachate collection lines consisting of twelve (12) inch diameter perforated class 200 P.V.C. pipe shall be constructed in V-shaped stone trenches at 100 foot spacings. The Residual Waste Landfill, should mining be approved, shall have (6) inch diameter pipe; otherwise, twelve inch pipe shall be used.

The leachate collection laterals in the Residual Waste Landfill shall tie into the down-gradient leachate collection laterals in the Solid Waste Landfill at the interim berm. The leachate collection laterals shall drain to the collection manholes located at the downgradient end of the landfill. The manholes discharge in a 36-inch diameter header pipe which shall drain to the leachate pump station. From there, the leachate is pumped into one of two 200,000 gallon leachate surge tanks for subsequent on-site or off-site treatment. The pump station shall have two submersible, explosion-proof dewatering pumps suitable for continuous service; the second pump shall serve as a contingency in case of primary pump failure.

The leachate collection system shall be cleaned out annually (or as approved by the Division) to maintain proper flow.

#### 4. Leachate Recirculation System

Leachate and wastewater generated at the Burlington County Resource Recovery Complex shall be permitted, at the Permittee's option, to be recirculated through Landfill No. 2 as required to maintain the waste fill at field capacity for a period of five years. Leachate recirculation shall be initiated in stages as various sections within Landfill No. 2 attain intermediate fill elevations and final fill elevations.

In accordance with the design, the leachate recirculation system consists of two levels of distribution piping: an intermediate-level distribution network will be located fifty feet above the liner system and a high-level distribution network will be located three feet below the landfill cap. Both networks will be activated in twenty-one stages. The leachate recirculation system is designed to regulate the flow of leachate through the distribution network in any level or stage to be reduced or increased by adjustment of a control valve.

Leachate seeps in side-slopes, should they occur during the leachate recirculation process, shall be repaired in accordance with the procedures set forth in the Operations and Maintenance Manual for Landfill No. 2.

The hydraulic head on the composite liner system shall be maintained at less than twelve inches at all times. A minimum of six leachate head monitoring probes shall be installed located at the south end of the landfill so that the hydrostatic head on the liner system is continuously monitored during leachate recirculation conditions. Liner head readings shall be reported quarterly to the Department (see "Summary of Required Submittals" at Section B.II.7 of this Permit).

Should the operation of the leachate recirculation system result in odor problems beyond that which can be controlled by the gas collection system or the application of daily cover and/or deodorants as described in Condition A.13 of this Permit, the Permittee shall shut down the operation of the leachate recirculation system until a corrective action is implemented.

Should the Permittee choose to forgo the leachate recirculation option, landfill gas wells and

appurtenant facilities shall be constructed with each phase of cap construction as provided for in Condition B.I.9 of this Permit.

5. Leachate Treatment and Disposal

Leachate generated at this facility shall be treated at the on-site leachate treatment plant prior to discharge to the Assiscunk Creek in accordance with NJPDES Permit No. NJ0055395. Operation of the plant shall be inspected on a daily basis as outlined in the Operations and Maintenance Manual. In the event that the treatment plant is shut down, or if leachate generation quantities exceed the treatment plant's capacity during periods of high flow, leachate shall be trucked off-site for treatment in accordance with the schedule contained in the leachate management strategy section of the Operations & Maintenance Manual. The facility shall maintain at all times the necessary permits and contracts for the off-site disposal of leachate.

6. Final Cover

Final cover shall comprise an impermeable cap consisting of the following (in ascending order):

- N A minimum of a twelve (12) inch layer of pervious cover material (final intermediate cover). This layer shall promote lateral gas movement to the extraction wells.
- N An eighteen inch layer of low permeable ( $1 \times 10^{-5}$  cm/sec) Pleistocene soil in compressive contact with a 40 mil Flexible Membrane Liner (FML, such as Very Flexible Polyethylene).
- N Drainage net composite with non-woven geotextile.
- N A twelve (12) inch sand drainage layer with a minimum permeability of  $1 \times 10^{-3}$  cm/sec.
- N A six (6) inch layer of topsoil bearing vegetation.

Final cover, as defined herein, shall be applied to each section after solid waste placement has reached final elevations at the landfill. Sections which reach final interim grades shall be capped with the final cover system to enable the initiation of the high level leachate recirculation and gas recovery well systems as soon as practicable. Alternatively, the permittee may construct a temporary cover system for sections that reach interim grade where no landfilling has occurred for a period of six months. The temporary cover system shall consist of a twelve (12) inch low permeability Pleistocene soil layer overlain by drainage and/or vegetative layers. The temporary cover shall be designed to help control gases and odor; reduce leachate generation, promote drainage and minimize erosion while the landfill is undergoing settlement and subsidence.

The final cover shall be stabilized by the establishment of vegetative cover in accordance with the Soil Erosion and Sediment Control Plan.

7. Ground and Surface Water Monitoring

Ground water monitoring for the sanitary landfill shall be conducted in accordance with the provisions of N.J.A.C. 7:14A-9, "Ground Water Monitoring Requirements for Sanitary Landfills".

Surface water discharges at the landfill shall be in accordance with the approved NJPDES Discharge to Surface Water (NJPDES/DSW) Permit.

8. On-Site Baseline

In accordance with N.J.A.C. 7:26-2A.7(a)2, the on-site baseline consisting of two vertical and horizontal control monuments shall be maintained at the Burlington County Resource Recovery Complex.

9. Landfill Gas Venting and Monitoring

Methane gas monitoring wells shall be installed around Landfill No. 1 and 2 as shown on the engineering designs. Testing of the wells for the presence of methane gas shall be conducted on a quarterly basis. On an annual basis, a methane gas survey shall be performed at 300-foot intervals around the perimeter of the landfill's buffer zone. Test results shall be submitted to the Bureau of Landfill and Recycling Management within thirty (30) days of testing. The permittee shall notify the Bureau within twenty-four (24) hours if and when gas is detected at or above 25% of the lower explosive limit.

The active landfill gas collection system for Landfill No. 1 shall consist of a gas collection piping network, extraction wells and centrifugal blowers which will direct gas to a flare or energy recovery device. The gas collection and control system shall be installed in two phases in conjunction with the final capping system.

Landfill No. 2 shall also have an active landfill gas collection system consisting of a gas collection piping network, extraction wells and centrifugal blowers. The active gas collection system shall be installed and operated in Landfill No. 2 concurrent with the installation and operation of the intermediate and high level leachate recirculation systems. A series of horizontal extraction wells shall be constructed during the operational phases of Landfill No. 2. Additional gas extraction wells shall be drilled into the refuse during each landfill capping phase. The horizontal and vertical wells shall be connected to laterals leading to the main piping system.

All collected gas shall be flared on-site or used for energy applications. An Air Pollution Control Permit shall be obtained prior to the construction of each landfill gas collection system pursuant to N.J.A.C. 7:27-8.2(a)16.

10. Landfill Service Capacity (Landfill No. 2 and Vertical Extension of Landfill No. 1)

The area of Landfill No. 1 waste fill limits is approximately 54 acres. A 25-acre cap is currently being constructed on the western portion of the landfill. The vertical extension shall be limited to 18.4 acres on the eastern portion of the landfill and shall not infringe upon the phase limit cap termination line. Final elevations, as shown on Sheet Nos. LF-34A, LF-38A, LF-42A and LF-43A, shall not exceed 165 feet above mean sea level.

Landfill No. 2 is located west and southwest of Landfill No. 1. The area of Landfill No. 2 waste fill limits shall be approximately 69.8 acres. Disposal of waste shall be limited to this area when disposal capacity in Landfill No. 1 is exhausted. Final elevations of Landfill No. 2, including final cover, shall not exceed 152 feet above mean sea level as shown on Sheet No. LF-14 of the engineering design.

11. Soil Erosion and Sediment Control

The Permittee shall comply with all requirements of the Soil Erosion and Sediment Control Plan as certified by the Burlington County Soil Conservation District. All soil and sediment control practices shall be installed in their proper sequence and be regularly maintained.

12. Future Mining of Landfill No. 1

It is indicated in the application documents that following the construction and start-up operations of Landfill No. 2, the Permittee may initiate application proceedings for the mining and reclamation of Landfill 1. This Permit shall in no way be construed as an approval of any future mining operations at Landfill No. 1 within the Burlington County Resource Recovery Complex. The Permittee shall submit a complete application for the implementation of a full-scale landfill mining and reclamation project to the Department and obtain an approval prior to the initiation of any mining operation. The application shall be in conformance with the rules and policies of the Department governing landfill mining and reclamation activities at that time.

13. Construction Quality Assurance/Quality Control (QA/QC)

The Quality Assurance/Quality Control Plan, as contained in Section 4 of the Engineering Design Report dated October 1996 with specific modifications noted in the Response to DEP Notice of Deficiency Document, shall be adhered to during all construction phases. Quality control inspectors shall be at the site during construction to ensure and verify that the design and permit requirements are properly implemented.

A quality assurance inspector approved by the Department shall be at the site during the initial construction phase of the subgrade preparation, liner system and leachate collection system. The inspector shall oversee the remainder of this work on a periodic basis as necessary. The quality assurance inspector shall conduct this work independent of the resident QA/QC team. The scheduled frequency of inspections by the independent quality assurance inspector may be reduced or discontinued by the Department in accordance with N.J.A.C. 7:26-2A.7(a)15.

A least 30 days prior to the start of construction, the quality assurance inspector shall meet with the Department to establish reporting procedures and frequency, in accordance with the construction schedule. Daily QA/QC reports shall be prepared and maintained in a log book which shall be available at the job site for inspection by the Department. All test results shall be included in the log book.

The resident QA/QC team shall ensure that all Quality Assurance and Quality Control procedures are followed pursuant to Departmental guidelines as stated in the Solid Waste Management regulations, N.J.A.C. 7:26-1 et seq., in the construction of the landfill.

14. Engineering Designs and Documents of Record

The construction and operation of this facility shall be in accordance with the provisions of N.J.A.C. 7:26-1 et seq., and the following design reports and engineering designs. In case of conflict, the conditions of this Permit shall supersede those of the engineering designs.

- A. Solid Waste Facility Permit Modification Application for Landfill No. 1 Vertical Extension consisting of the following documents:
1. Letter of transmittal from the Burlington County Board of Chosen Freeholders, dated September 12, 1997;
  2. Document prepared by Richard A. Alaimo Engineering Company, dated September 1997, consisting of Engineering Design Report, HELP Model Analyses, Landfill Gas Generation Data, Slope Stability Analysis and Pipe Loading Calculations; and
  3. Engineering Design Drawings showing revised elevations, Sheets C-1, LF-34A, LF-38A, LF-42A and LF-43A, dated September 12, 1997, signed and sealed by Richard A. Alaimo, P.E., New Jersey License No. 13195. These drawings supersede certain drawings listed at C and F below.
- B. Solid Waste Facility Permit Application for Landfill No. 2 consisting of the following documents:
1. Letter of transmittal from the Burlington County Board of Chosen Freeholders, dated January 15, 1997;
  2. Engineering Design Report, prepared by Richard A. Alaimo Engineering Company, dated October 1996. The Engineering Design Report consists of the following appendices:
    - a. Appendix A consisting of the Registered Well Inventory;
    - b. Appendix B consisting of construction cost estimates;
    - c. Appendix C consisting of HELP Model Analyses prepared by Richard A. Alaimo Engineering Company;
    - d. Appendix D consisting of Slope Stability Analyses prepared by Woodward Clyde Consultants; and,
    - e. Appendix E consisting of Hydrologic, Hydraulic, Soil Erosion and Sediment Control Calculations prepared by Richard A. Alaimo Engineering Company.
  3. Updated Geologic and Hydrogeologic Site Characterization Report prepared by Woodward Clyde Consultants, dated April 1996;
  4. Preliminary Operations and Maintenance Manual prepared by Richard A. Alaimo Engineering Company, dated December 1996;
  5. Revised Environmental and Health Impact Statement prepared by IT

Corporation, dated January 1997;

6. Engineering Design Drawings consisting of 93 sheets, dated October 25, 1996, signed and sealed by Richard A. Alaimo, P.E., New Jersey License No. 13195. Sheets LF-6, LF-8, LF-9, LF-11, LF-12, LF-13, LF-17, LF-18, LF-20, LF-21, LF-28, LF-29, LF-32, LF-34, LF-36, LF-44, LF-46, LF-48, LF-49, LF-52, LF-53, P1-2, P1-4, P1-6 and P1-8 are superseded by sheets bearing same numbers with revision date of September 4, 1997 due to design changes affecting manholes; and,
  7. Document entitled "Response to DEP Notice of Deficiency No. 1", appended with letter dated May 14, 1997 from the Burlington County Board of Chosen Freeholders.
- C. "Solid Waste Facility Permit Modification for (Upgraded) Gas System Design" prepared by SCS Engineers, dated November 1997.
  - D. "Solid Waste Facility Permit Modification for Final Cover and Gas System Design" prepared by Richard A. Alaimo Engineering Company, dated May 1996.
  - E. Permit Renewal Application, dated November 9, 1992 and the addendums filed January 19, 1993, February 1, 1995 and April 27, 1995.
  - F. The engineering designs entitled "Burlington County Resource Recovery Complex Scale House Facility" prepared by Birdsell Engineering, sheets 1-11, A1-A7, SE1 and SE2 dated January 1, 1995.
  - G. The engineering designs entitled "Burlington County Solid Waste Facilities Complex Landfill Design" prepared by Richard A. Alaimo Engineering Company, signed by Richard A. Alaimo, P.E., consisting of 206 sheets, dated August 31, 1987.
  - H. "Engineering Design Report for the Burlington County Landfill" prepared by Richard A. Alaimo Engineering Company, dated September 1986.
  - I. Sheets P1-21, P1-22, P1-23, P1-24, P1-26 and P1-28, dated March 1998 and revised on February 11, 1999, signed and sealed by Richard A. Alaimo, P.E., accompanied by letter dated April 30, 1999 requesting minor permit modification for geosynthetic clay liner (GCL) for Landfill No. 2, Phase 1 (Sections 1 through 6).
15. Buffer Zone and Landfill Setback
- The landfill's setback area shall be as shown on the engineering designs, and shall be no less than 200 feet. A minimum of 50 feet of buffer zone within the setback area shall be maintained adjacent to all public roads. The buffer zone shall consist of naturally wooded areas and plantings as shown on the landscape plan contained in the engineering designs.

## **II. OPERATIONS, MAINTENANCE AND MONITORING**

1. Final Operations and Maintenance Manual

The Final Operations and Maintenance (O&M) Manual shall contain, in full, all relevant procedures for the operations and maintenance of Landfill No. 2. References to other manuals (i.e. the approved O&M Manual for Landfill No. 1, last revised in February 1995) shall not be used in place of a full listing of O&M Manual procedures.

The Final Operations and Maintenance Manual shall be submitted to the Department at least sixty (60) days prior to the initiation of landfilling operations in the newly constructed landfill.

2. Inspection, Operation and Maintenance Schedules

The following shall be performed on a daily basis:

- Record leachate head levels during the leachate recirculation process
- Record leachate flowmeter reading
- Inspect leachate pumping stations
- Inspect leachate storage tanks
- Inspect methane gas evacuation system
- Inspect storm water sedimentation and detention basins
- Record precipitation
- Police buffer zone and site entrance for litter

The following shall be performed on a weekly basis:

- Inspect all environmental control systems
- Inspect ground water monitoring wells for damage

The following shall be performed after storm events:

- Inspect sedimentation and detention basins and surface runoff structures
- Inspect leachate collection manholes and pump stations
- Inspect all environmental control systems

The following shall be performed on a quarterly basis:

- Conduct methane gas survey around perimeter of the buffer zone of active landfill areas

The following shall be performed on an annual basis:

- Perform topographic survey of landfill
- Inspect leachate storage tank for leaks
- Conduct methane gas survey around perimeter of the buffer zone of the sanitary landfill

The following shall be performed biennially:

- Survey the baseline vertical and horizontal control monuments

- Overhaul leachate pumping system
- Overhaul methane gas pumping system

In addition to the above, inspection, operation and maintenance of other aspects of the facility shall be performed, as necessary, in order to meet the terms of this Permit and all applicable regulations.

The Permittee shall record the results of the inspections in a log book which shall be maintained at the sanitary landfill office and be available, at all times, for inspection by the Department. These records shall include the date and time of the inspection, the name of the inspector, a notation of observations and recommendations, and the date and nature of any repairs or other remedial action.

### 3. Waste Disposal Methods

The working face shall be confined to the smallest practical area, as is consistent with the proper operation of trucks and equipment, in order that the area of waste material exposed during the operating day is minimized. The maximum working face width shall not exceed 150 feet. At no time shall the area of exposed waste be greater than 15,000 square feet. The lift height of a daily cell, including cover soil, shall not exceed 12 feet. Waste shall be compacted in 2-foot layers. The maximum working face slope shall not exceed 3:1 (horizontal to vertical).

Bulky waste and any sharp or penetrating objects shall not be disposed of in the first four feet of the initial lift in each landfill cell.

### 4. Cover Requirements

Daily and intermediate cover shall be of the types that can be workable under all weather conditions. A soil/compost mix may be used for daily cover only.

A sufficient quantity of cover material shall be available at all times to ensure proper operation of the landfill. At the end of each day, at least 6 inches of soil or an alternative cover material approved by the Department as daily cover, shall be placed on areas of the solid waste working face that will be exposed for less than 24 hours. Intermediate cover, which shall consist of at least 12 inches of soil, shall be applied to all surfaces exposed for any period exceeding 24 hours.

### 5. Surface Water Control

The grade and thickness of cover material on all surfaces of the facility shall be maintained regularly so as to prevent the occurrence of ponding of water anywhere on the active landfill area except in designated stormwater control ponds. All provisions of the drainage plans as indicated in the approved engineering design shall be implemented. The channels and drainage structures shall be regularly maintained. Any drainage from the active landfill area shall be such as not to cause siltation.

### 6. Closure and Post-Closure Plan

The Permittee shall comply with the requirements of N.J.A.C. 7:26-2A.9 for the closure and

post-closure care of this facility. Failure to comply with the requirements of any closure plan approval issued from the Department may result in the revocation of this Permit.

7. Summary of Required Submittals

The following information shall be submitted to the Bureau of Landfill and Recycling Management, Division of Solid and Hazardous Waste, of this Department:

	<u>Document</u>	<u>Due Date</u>
1)	Recordings of leachate head levels	quarterly
2)	Perimeter gas monitoring results	quarterly
3)	Leachate monitoring results (quality and quantity)	quarterly
4)	Daily precipitation summary	quarterly
5)	Topographic survey and report	annually (prior to May in accordance with 7:26-2A.8(i))
6)	Closure and Financial Plan Two Year Update	biennially

**C. TRANSFER STATION**

1. Delivery and Receipt of Waste Materials

Mixed loads of solid waste delivered to the Complex in front-end and rear-end loaders shall be unloaded at the transfer station. Mixed loads of solid waste delivered in vehicles requiring manual unloading shall be unloaded at the Convenience Center. Waste unloaded at the convenience center and transfer station shall be transported to the landfill working face in transfer trailers by operating personnel.

The Operator may, at its discretion, direct vehicles to the working face of the landfill if the load presents handling problems or if unsafe conditions suddenly exist at the transfer station.

2. Referenced Engineering Plans and Documents

The construction and operation of the transfer station shall be in accordance with the provisions of N.J.A.C. 7:26-1 et seq., and the designs plans previously approved and referenced at Condition B.I.14 F and G of this Permit.

3. Waste Inspection and Handling Program

Inspection and handling of waste materials received at the transfer station shall adhere to the procedures outlined in the Operations and Maintenance Manual.

4. Waste Retention Time

No solid waste shall be allowed to remain on the tipping floor overnight, except in the case of an emergency and with prior approval of the Department.

5. Housekeeping

The tipping floor and the transfer trailer tunnel shall be swept with a wet sweeping truck as needed during the operating day to remove litter and debris. The entire building shall be thoroughly cleaned at the end of the operating day.

6. Wastewater Disposal

All waste water resulting from the operation and washdown of the concrete tipping floor and transfer trailer pit area shall be directed to a sump via the floor drains. This waste water is pumped to the landfill leachate collection system for treatment and disposal in accordance with Condition B.I.5 of this Permit.

7. Maintenance and Repair

Through an effective inspection, planned maintenance, repair and parts replacement program, the transfer station and related appurtenances shall be kept in proper operating order at all times. As part of this program, the Permittee shall maintain an inventory of spare parts and replacement equipment, or maintenance contracts shall be established with companies for leasing backup equipment to ensure continued operation of the transfer station.

The results of all inspections shall be recorded in a bound inspection log. These records shall be maintained at the transfer station for a minimum of five years from the date of inspection.

Failure to comply with any or all limitations heretofore mentioned will result in the Department seeking relief under the Solid Waste Management Act N.J.S.A. 13:1E-1 et seq. Specifically, each day of failure to so comply shall constitute a separate violation on the basis of which a penalty shall be assessed and may result in loss of operating authority pursuant to N.J.S.A. 13:1E-12.

The issuance of this Permit and the conditions of operation identified herein shall not be interpreted as relieving the Permittee of their responsibility to secure and maintain all other applicable federal, state and local permits or similar forms of authorization relating to the construction and operation of this facility.

**APPENDIX A**

**RECYCLING CENTER  
GENERAL APPROVAL CONDITIONS  
FOR RECEIPT, STORAGE, PROCESSING OR TRANSFER  
OF CLASS B RECYCLABLE MATERIALS**

Under the provision of N.J.S.A. 13:1E-1 et seq. and N.J.S.A. 13:1E-99.11 et seq., known as the Solid Waste Management Act and the New Jersey Statewide Mandatory Source Separation and Recycling Act, respectively, and pursuant to N.J.A.C. 7:26A-1 et seq., known as the Recycling Regulations, this Approval is hereby issued to:

**Burlington County Board of Chosen Freeholders**

SOLID WASTE FACILITY NUMBER: 0318000167

CAPACITY 200 TPD - WOOD MATERIALS  
200 TPD - CONCRETE, ASPHALT  
& BRICK  
100 TPD - TIRES

RECYCLING CENTER NUMBER: 0318001380

This Approval is subject to compliance with all conditions specified herein and all regulations

promulgated by the Department of Environmental Protection or as may be amended in the future. All references to specific regulations include any future amendments thereto.

This Approval shall not prejudice any claim the State may have to riparian land, nor does it allow the Burlington County Board of Chosen Freeholders to fill or alter, in any way, lands that are deemed to be riparian, wetlands, stream encroachment areas or flood plains, or that are within the Coastal Area Facility Review Act (CAFRA) Zone or are subject to the Pinelands Protection Act of 1979, nor shall it allow the discharge of pollutants to waters of this State without prior acquisition of the necessary grants, permits, or approvals from the Department of Environmental Protection.

Compliance with the terms of this Approval does not relieve the Burlington County Board of Chosen Freeholders of the obligation to comply with all applicable local, state and federal statutes, rules and other permits.

Failure to comply with all the conditions specified herein may result in revocation of this Approval and/or may result in other regulatory or legal actions which the Department is authorized to institute by law.

## **Recycling Center General Approval**

**for**

### **Burlington County Board of Chosen Freeholders**

#### **A. AUTHORIZED RECYCLABLE MATERIALS**

##### **1. Permitted Class B Recyclable Materials**

The following source separated Class B recyclable materials which have been separated at the point of generation from other waste materials or separated at a permitted solid waste facility authorized to separate recyclable materials may be received, stored, processed or transferred at the Bulky Materials Recycling Area:

Asphalt  
Brick  
Brush  
Concrete  
Stumps  
Tires  
Trees  
Tree Parts  
Wood (including painted, chemically treated and creosoted)

##### **2. Permitted Class A Recyclable Materials**

The following source separated Class A recyclable materials which have been separated at the point of generation from other waste materials or separated at a

permitted solid waste facility authorized to separate recyclable materials may be received, stored, processed or transferred at this facility:

Cardboard  
Ferrous and non-ferrous metals  
Glass  
Paper  
Plastic

3. By-Products

Incidental amounts of rebar, metal, soil and other by-products which adhere to the Class B recyclable materials as specified in Condition A.1 and returned to the economic mainstream as raw material or products. Its' receipt shall not be separately accounted for but its storage and end-markets shall be subject to specific conditions of this Approval.

4. Contaminants

The maximum amount of contaminants allowed in each incoming load of Class B recyclable materials for acceptance shall be limited to 1% by volume.

Incidental by-product materials included within the Class B recyclable materials shall not be considered to be contaminants.

**B. DESIGN AND CONSTRUCTION**

The construction of this facility shall be in accordance with the provisions of N.J.A.C. 7:26A-1 et seq., the New Jersey Uniform Construction Code, the approved documents listed below and this Approval.

1. Approved Documents

a. Bulky Materials Recycling Area:

Permit Renewal Application, dated November 9, 1992 and the addendums filed January 19, 1993, February 1, 1995 and April 27, 1995.

"General Site Plan, Burlington County Resource Recovery Complex" dated September 1992, signed by Richard A. Alaimo, P.E.

**C. RECYCLING CENTER OPERATIONAL STANDARDS**

The operation of this facility shall be in accordance with the provisions of N.J.A.C. 7:26A-1 et seq., the standards set forth herein and the approved documents specified in Condition B.1. Where any discrepancy exists, the terms of this Approval shall prevail.

1. Residue

Residue generated as a result of processing source separated recyclable materials shall not exceed 1% by volume of the daily amount accepted.

Residue defined as solid waste, shall be transported by a NJDEP registered collector/hauler to the facilities consistent with the Burlington County District Solid Waste Management Plan.

Residue shall be stored separately from recyclable material in containers and in a manner which prevents run-off, leakage or seepage from the residue storage area into, on or around the soil of the residue storage area.

No residue shall be stored on site for a period exceeding six (6) months without prior approval of the NJDEP.

2. Maximum Daily Capacity

The Burlington County Resource Recovery Complex recycling center may receive no more than 500 tons per day of Class B recyclable materials consisting of 200 tons per day of wood materials, 200 tons per day of concrete/asphalt/brick combined and 100 tons per day of tires as specified in the cover page of Appendix A of this Permit.

3. Maximum Weekly Capacity

The Burlington County Resource Recovery Complex recycling center may receive no more than 3,000 tons per week of Class B recyclable materials consisting of 1,200 tons per week of wood materials, 1,200 tons per week of concrete/asphalt/brick and 600 tons per week of tires as specified in the cover page of Appendix A of this Permit.

4. Unprocessed Materials Storage

- a. The total amount of unprocessed concrete, asphalt and brick recyclable materials stored on site shall not exceed 5,000 cubic yards.
- b. The total amount of unprocessed trees shall not exceed 15,400 cubic yards.  
The total amount of all other unprocessed wood materials shall not exceed 15,400 cubic yards.
- c. The total amount of unprocessed creosoted wood shall not exceed 11,700 cubic yards.

If at any time, the amount of any Class B recyclable material stored on site exceeds the amounts listed above, the Burlington County Resource Recovery Complex recycling center shall immediately cease receiving that Class B recyclable material until the amount of Class B recyclable material falls below the listed amount.

Unprocessed materials shall be stored only in those areas designated for that purpose as indicated on the approved site plan. All unprocessed material shall be

stored separately from residues.

Unprocessed recyclable material shall not remain on site, in its unprocessed form, for more than one (1) year.

5. Processed Materials Storage

- a. The total amount of processed concrete, asphalt and brick stored on site shall not exceed 5,000 cubic yards.
- b. The total amount of processed trees stored on site shall not exceed 32,000 cubic yards. The total amount of all other processed wood materials shall not exceed 32,000 cubic yards.
- c. The total amount of reprocessed creosoted wood stored on site shall not exceed 6,000 cubic yards.

If at any time, the amount of any processed Class B recyclable material exceeds the amounts listed above, the Burlington County Resource Recovery Complex recycling center shall immediately cease processing activities of that material until the amount of that processed Class B recyclable material falls below the listed amount.

Processed materials shall be stored only in those areas designated for that purpose as indicated on the approved site plan. All processed materials shall be stored separately from residues.

6. By-Products Storage

By-products shall be stored in container(s) or area(s) as depicted on the approved site plan and shall be removed off-site to the end markets as referenced in the approved documents.

7. Horizontal and Vertical Controls

Horizontal and vertical control points for the unprocessed and processed materials storage areas shall be set and maintained on site. Horizontal limitation markers shall be set at the corners of the stockpile areas as depicted on the approved site plan.

Vertical limitation markers shall be set at locations in close proximity of the stockpile areas and shall clearly establish heights of 20 feet above the existing grade for the unprocessed wood stockpile and 15 feet above the existing grade for the processed wood and creosoted wood stockpiles.

A joint site inspection shall be held at the facility between the owner/operator and representatives of the Department for the purpose of establishing the locations of these markers.

8. Commingling

The Burlington County Resource Recovery Complex recycling center shall not receive, store, process or transfer Class A recyclable materials with Class B

recyclable materials in a commingled manner.

The Burlington County Resource Recovery Complex recycling center may receive, store, process or transfer source separated concrete, asphalt, brick, block, and ceramic tile separately or commingled with each other. The recycling center may receive, store, process or transfer source separated trees, tree parts, brush, stumps, and wood separately or commingled with each other. In addition, the recycling center may not receive, store, process or transfer source separated tires commingled with any other material. Commingling of materials not described above is prohibited.

9. Applicable Regulations

The operation and related activities of this recycling center shall be in conformance with all applicable federal, state, county, municipal and local statutes, rules and ordinance including but not limited to nuisance, noise, fire and safety codes.

10. Safety Procedures

The operation of the recycling center shall be in conformance with the Occupational Safety and Health Act (OSHA) regulations as contained in the General Industry Standards 29 CFR 1910. Construction activities shall be in conformance with the OSHA regulations as contained in the Construction Industry Standards 29 CFR 1926. A copy of the safety procedures shall be posted on site.

In addition, the Permittee shall require in all contracts with private contractors performing work on behalf of the Permittee in construction and operation at the facility that the contractors adhere to all OSHA standards for the safety of its employees and other persons entering the premises.

11. Housekeeping

Routine housekeeping and maintenance procedures shall be implemented throughout the recycling center to prevent the accumulation of litter and debris, and to maintain general cleanliness in the working environment.

12. Entrance Sign

A legible sign shall be posted and maintained at the entrance to the recycling center and indicate the hours of operation of the recycling center as well as the following information:

- a. A listing of the approved recyclable materials as specified in Condition A.1 of this Approval.
- b. The size, weight or other restrictions regarding materials to be received.
- c. A notice that all vehicles delivering materials to the recycling center will be inspected, and if found to contain contaminants greater than 1% by volume, will be rejected.

- d. A notice that persons bringing materials to the recycling center shall complete and certify a materials receipt form.

13. Documents On-Site

A copy of the approved documents as referenced in Condition B.1 and a copy of this approval shall be maintained at the facility and shall be made available for inspection by Department personnel or its designated representatives.

14. End-Markets

All end-markets to which recyclable materials are transported from the recycling center shall remain consistent with those end-markets specified in the approved documents. Any modification in the actual end-market for a recyclable material specified in Condition A.1 shall be in conformance with N.J.A.C. 7:26A-3.10(f).

**D. RECORDKEEPING AND REPORTING**

1. Recordkeeping

In accordance with N.J.A.C. 7:26A-3.17, the Burlington County Board of Chosen Freeholders shall maintain daily records of all materials received, stored, processed or transferred at the site. Said records shall be available at all times for inspection and shall indicate, at a minimum, the following:

- a. A daily record of the amounts of each recyclable materials by type and municipality of origin which are received, stored, processed or transferred each day, expressed in tons or in cubic yards. Those operators specifying this information in cubic yards shall also indicate the conversion ratio of the materials from cubic yards to tons.
- b. The name, address, and telephone number of the end-markets for all recyclable materials transported from the recycling center, including the amount, in tons or cubic yards, transported to each end-market. Those persons specifying this information in cubic yards shall also indicate the conversion ratio of the materials from cubic yards to tons. NJDEP reserves the right to verify all end-market information submitted by the Burlington County Board of Chosen Freeholders.
- c. The amount of residue disposed of, expressed in tons or cubic yards, including the name and the New Jersey Department of Environmental Protection solid waste registration number of the solid waste collector/hauler contracted to provide the haulage/disposal service. Those persons specifying the amount of residue in cubic yards shall also indicate the conversion ratio of residue from cubic yards to tons.
- d. The name and location of the generator; the volume of contaminated soil received; the area(s) on the generator's property from where the soil was excavated; the source of the contamination; the substance(s) that comprise

the contamination; all tests and sampling conducted on the soil, including those not specifically required by the Air Pollution Control Permit to Construct and Certificate to Operate as referenced in Condition C.15.a of this Approval and any other pertinent information.

The Burlington County Board of Chosen Freeholders shall retain the information for three (3) calendar years following the calendar year for which reporting is required.

2. Reporting

a. Annual Report

In accordance with N.J.A.C. 7:26A-3.16, The Burlington County Board of Chosen Freeholders shall submit an annual report containing monthly summary statements of the information required pursuant to Condition D.1 above to the New Jersey Department of Environmental Protection on or Before February 1 of each year, for the previous calendar year. The summaries shall include monthly totals of the amount of recyclable material received from each customer by the municipality of origin. Furthermore, the summaries shall include monthly totals of the amount of recyclable product transferred to each end-market. The summaries shall also include the amount of residue disposed of during each month. An annual fee will be paid to the Department on May 1, in accordance with N.J.A.C. 7:26-2.1(b)1;

b. Residue Disposal

The Burlington County Board of Chosen Freeholders shall certify in writing to the Department that all residue generated at the recycling center has been disposed of in accordance with the solid waste management rules at N.J.A.C.7:26. The certification shall be submitted annually as part of the annual report;

c. Tonnage Report

The Burlington County Board of Chosen Freeholders shall provide a recycling tonnage report by February 1 of each year to all municipalities from which recyclable material was received in the previous calendar year. The report shall detail the amount of each source separated recyclable material, expressed in tons or cubic yards, brought to the recycling center. Those persons specifying this information in cubic yards shall also indicate the conversion ratio of the materials from cubic yards to tons.

One original and one copy of the annual report and tonnage report shall be submitted to:

New Jersey Department of Environmental Protection  
Division of Solid and Hazardous Waste  
Bureau of Recycling and Planning

PO Box 414  
Trenton, New Jersey 08625-0414

Failure to comply with any or all conditions of this Approval will result in the NJDEP seeking relief under the Solid Waste Management Act, N.J.S.A. 13:1E-1 et seq. Specifically, each day of failure to so comply shall constitute a separate violation on the basis of which a penalty shall be assessed pursuant to N.J.S.A. 13:1E-9 and may subject the Burlington County Resource Recovery Complex recycling center to regulation as a solid waste facility pursuant to N.J.S.A. 13:1E-1 et seq. and N.J.A.C. 7:26-1 et seq.

The issuance of this Approval and the conditions of operation identified herein shall not be interpreted as relieving the applicant of his responsibility to secure and maintain all other applicable federal, State and local permits or similar forms of authorization relating to the construction and operation of this facility.

MS/ms  
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